APPENDIX XIV

Serial No.: 09/955,064

Docket No.: 49933US032

Office Action mailed from the U.S. Patent and Trademark Office on August 26, 2003.



United States Patent and Trademark Office

United States Department of Commerce United States Patent and Trademark Office Address Commission NER FOR PATENTS FU. Sen 1436 Alexandra, Vaging 23113-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N	
09/955,604 09/19/2001		Timothy L. Hoopman	49933US032	1214	
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ST. PAUL, MN			LEYSON, J	oseph s	
	, •		ART UNIT	PAPER NUMBER	
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•		•	DATE MAILED: 08/26/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)	
•	09/955,604	HOOPMAN ET AL.	
Offic Action Summary	Examin r	Art Unit	
	Joseph Leyson	1722	
Th MAILING DATE f this communication app P ri d for Reply			7955 ·-
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1,13 after SIX (8) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Fallure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1,704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of the apply and will expire SIX (6) MONTHS for cause the application to become AHANDON.	timely filed days will be considered timely, orn the mailing data of this con	munication.
Status			
1) Responsive to communication(s) filed on <u>30 J</u>			
· ·	is action is non-final.		
3) Since this application is in condition for allowal closed in accordance with the practice under a Disposition of Claims	ince except for formal matters, Ex parte Quayle, 1935 C.D. 11	prosecution as to the , 453 O.G. 213.	merits is
4) Claim(s) 23.24.30-32,89,90,92,93.134-136,136	8-143 and 145-148 is/are pend	ling in the application.	
4a) Of the above claim(s) is/are withdraw			• :
5) Claim(s) Is/are allowed.			4.
6) Claim(s) 23.24.30-32.89.90.92.93,134-136.138	3-143 and 145-148 is/are reject	ed.	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement	•	
Application Papers			₹
9) The specification is objected to by the Examiner	.		
10) The drawing(s) filed on is/are: a) accep	ted or b) objected to by the Ex	caminer.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on			· ·
If approved, corrected drawings are required in rep	ly to this Office action.		
12) The oath or declaration is objected to by the Exa	aminer.	•	
Priority under 35 U.S.C. §§ 119 and 120		•	
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).	· .
a)☐ All b)☐ Some * c)☐ None of:			
1. Certified copies of the priority documents	have been received.		
2. Certified copies of the priority documents	have been received in Applica	ation No.	
 3. Copies of the certified copies of the priori application from the International Burn See the attached detailed Office action for a list of 	ity documents have been recei	ved In this National S	lage
14) Acknowledgment is made of a claim for domestic a) The translation of the foreign language prov	visional application has been re	eceived.	pplication).
15)⊠ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 12	20 and/or 121.	
Attachment(s)	name i carrier a pares i carre de la carre	-	- proper seems
) Notice of References Cited (PTO-892)) Notice of Draftsperson's Patent Drawing Review (PTO-948)) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 15	5) Notice of Informa	ery (PTO-413) Paper No(s) Patent Application (PTO-	152)

- 1. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 30 June 2003 has been entered.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 23, 30, 31, 89, 92, 134-136, 138-143 and 145-148 are rejected under 35 U.S.C. 102(b) as being anticipated by Rochlis(-583).

Rochlis(-583) teaches a production tool suitable for use in manufacturing an abrasive article (col. 1, lines 50-56) which includes a plurality of cavities having different geometric shapes, angles and dimensions. The production tool can be a coating roll (fig. 19) or an etched (engraved) metal roll (col.

3, lines 52-63; col. 13, lines 15-17 and 62-67). The production tool can have parallel rows of cavities as shown in figs. 21 and 22 with a first plurality of rectangular cavities, a second plurality of circular cavities, and a third plurality of triangular cavities. At least one of the angles or base edge lengths of the first plurality is different from all the angles or base edge lengths of the second plurality and of the third plurality. At least one of the angles or base edge lengths of the second plurality is different from all the angles or base edge lengths of the first plurality and of the third plurality. Rochlis(-583) discloses that the cavities of the production tool can have different sizes (col. 2, lines 66-70; col. 6, lines 17-22; col. 9, line 61, to col. 10, line 52; i.e., different heights). Rochlis(-583) discloses that the cavities and products can have pyramidal or truncated pyramidal shapes (i.e., figs. 10-13; col. 13, lines 51-58). Rochlis(-583) discloses that the production tool can have a plurality of different types (shapes) of cavities (col. 13, lines 29-35). Figs. 21 and 22 show a first row of cavities with a rectangular cross section which defines a first base edge length extending parallel to the first row and a second base edge length extending perpendicular to the first row, wherein the second base length of all the cavities in the first row is the same (of course they also can

be different sizes as mentioned above), and show a first rectangular cavity adjacent a second circular cavity, the second circular cavity being adjacent a third triangular cavity. Each of the cavities has a single opening.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 23, 24, 31, 32, 89, 90, 92, 93, 134-136, 138-143 and 145-148 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochlis(-583).

The 102 rejection above is based upon the interpretation of the alternatives for the production tool disclosed by Rochlis(-583) as being anticipatory. If applicants believe that the disclosed alternatives are NOT anticipatory, then it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the production tool of Rochlis(-583) with the alternatives disclosed by Rochlis(-583) because Rochlis(-583) explicitly discloses that the production tool can be modified with such disclosed alternatives.

Rochlis(-583) discloses a production tool, as mentioned above, having 3 different types or shapes of cavities defining three pluralities or groups of cavities (figs. 21 and 22), but does NOT explicitly disclose a fourth plurality or group of cavities having a fourth different type of cavity. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the production tool to have four pluralities or group of cavities having four different types of cavity because Rochlis(-583) discloses that the production tool can have a plurality of different types of cavities and/or because Rochlis(-583: figs. 21 and 22) discloses

a production tool example having not just two but three pluralities or groups of cavities having three different types of cavities. Note that different shapes will read on the respective instant claims. For example, if the three different types had cross sections of a square, a pentagon, and a hexagon, then each of the cavities would have a boundary defined by at least four surfaces wherein adjacent planar surfaces of one cavity meet at an edge to define an angle of intersection therebetween, wherein the at least one angle of intersection of the first cavity is different from all the angles of the second and third cavities, and wherein at least on angle of intersection of the second cavity is different from all the angles of intersection of the first and third cavities. Various different types would also provide different base edge lengths.

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 23, 24, 30-32, 89, 90, 92, 93, 134-136, 138-143 and 145-148 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 17, 20, 21, 25-28, 33-54, 94-96 and 98-111 of copending Application No. 09/520,032 in view of Rochlis(-Claims 17, 20, 21, 25-28, 33-54, 94-96 and 98-111 of copending Application No. 09/520,032 disclose the production tool substantially as instantly claimed. Rochlis(-583) discloses a production tool as mentioned above. It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify the production tool of claims 17, 20, 21, 25-28, 33-54, 94-96 and 98-111 of copending Application No. 09/520,032 such that the cavities have a first, second, third, or more plurality of cavities, each plurality having a different shape because such a modification would produce a product having a first, second, third, or more plurality of different shapes on the product as disclosed by Rochlis(-583). Note that the possible different shapes and combinations thereof disclosed by Rochlis(-583) would provide the dimensions, planar surfaces, angles, edges, boundaries and shapes as recited by the instant claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Leyson whose telephone number is (703) 308-2647. The examiner can normally be reached on M-F(8:30-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on (703) 308-0457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

gr

TT.

20 August 2003

JAMES P. MACKEY PRIMARY EXAMINER

8/22/03

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

as many sheets as necessary)

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Page 1 of 1

Filing Date	Sept mb r 19, 2001 Hoopman, Tim thy L.		
First Nam d Inventor			
Art Unit	1722		
Examiner Name	Jos ph Leyson		
Attorney Case Number	49933US032		

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	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
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	C1	The second secon				

- * JP 7-164330 claims priority to USSN 120,297 which is the same application from which U.S. Patent 5,489,235 issued. U.S. Patent No. 5,489,235 was cited in a previous Information Disclosure Statement dated June 7, 2000.
- ** JP 3-73276 claims priority to USSN 347,663 which is the same application from which U.S. Patent 5,014,468 issued. U.S. Patent No. 5,014,468 was cited in a previous Information Disclosure Statement dated June 7, 2000.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with n xt communication to applicant.